

THAT WHICH IS CLAIMED:

1. An apparatus for detecting loss of liquid from a body of contained liquid having a surface, said apparatus comprising:

5 a first container having an upper end, a lower end, an inner cavity and at least one opening allowing contained liquid to flow in and out of said inner cavity when said first container is partially submerged in the contained body of liquid with the container upper end extending above the surface of the contained liquid so that a liquid surface forms in the first container level with the surface of the contained liquid;

10 a load cell submersible in the contained liquid and positioned at a lower end of said first container within the inner cavity, for measuring a weight bearing thereon; and

a second container having an upper end, a lower end, and an inner cavity closed to liquid flow, said second container positioned within the inner cavity of said first container having its lower end resting upon said load cell so as to bear no detectable weight thereon when the second container's inner cavity is filled with a volume of the contained liquid to a level even with the surface of the contained body of liquid.

2. The apparatus of Claim 1, further comprising a power source connected to said load cell.

20 3. The apparatus of Claim 1, wherein said submersible load cell is substantially liquidproof.

4. The apparatus of Claim 1, further comprising a display connected to said load cell for displaying weight measured by said load cell.

5. The apparatus of Claim 1, further comprising a processor connected to said load cell for processing weight information generated by said load cell.

6. The apparatus of Claim 1, wherein the upper end of said first container has an opening connecting with said inner cavity and includes a cover thereon.

7. The apparatus of Claim 1, further comprising sufficient ballast for holding the apparatus at least partially submerged in water.

8. The apparatus of Claim 1, wherein the opening in said first container is positioned near the lower end.

9. The apparatus of Claim 1, wherein the opening further comprises a hose extending therefrom.

10. The apparatus of Claim 1, further comprising an alarm responsive to said load cell.

11. The apparatus of Claim 1, further comprising a recorder responsive to said load cell.

12. The apparatus of Claim 1, further comprising a processor connected to said load cell, said processor including sufficient storage capacity for storing weight information generated by said load cell.

5 13. The apparatus of Claim 1, further comprising a wireless transmitter connected to said load cell for transmitting weight information to a remote monitoring station.